Appendix C
Correlated PM_{10} Concentrations and Winds

The following graphs illustrate the direct correlation between wind speeds[1] and PM_{10} concentrations at select monitoring sites within the Salton Sea Air Basin on April 14, 2016. Note a variety of instruments measure wind speed at different times during any given hour. Therefore, the following graphs reflect the hour of the wind measurement.

IMPERIAL COUNTY SITES
(FIGURES C-1 to C-5)

FIGURE C-1
BRAWLEY PM_{10} CONCENTRATION & WIND SPEED CORRELATION

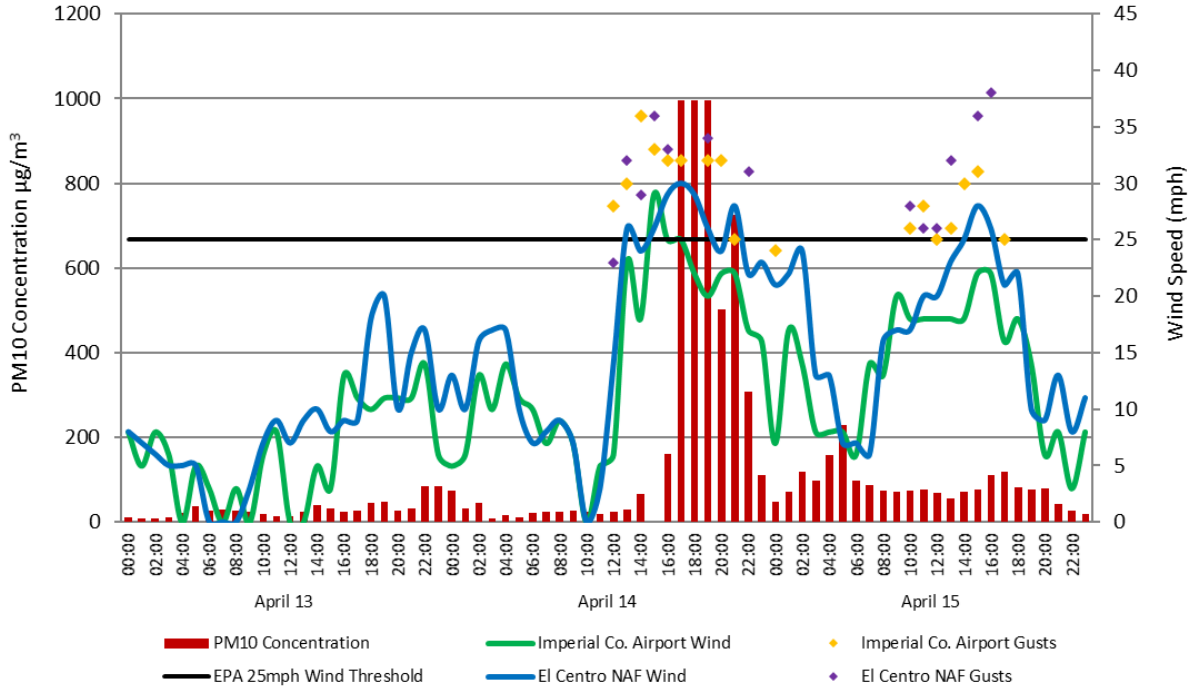

Fig C-1: Brawley saw increased hourly concentrations in response to dust being transported downstream. Brawley does not measure wind speed data. Air quality data from the EPA's AQS data bank. Wind data from the NCEI's QCLCD system

[1] National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); https://w1.weather.gov/glossary/index.php?letter=w

FIGURE C-2
CALEXICO PM_{10} CONCENTRATION & WIND SPEED CORRELATION

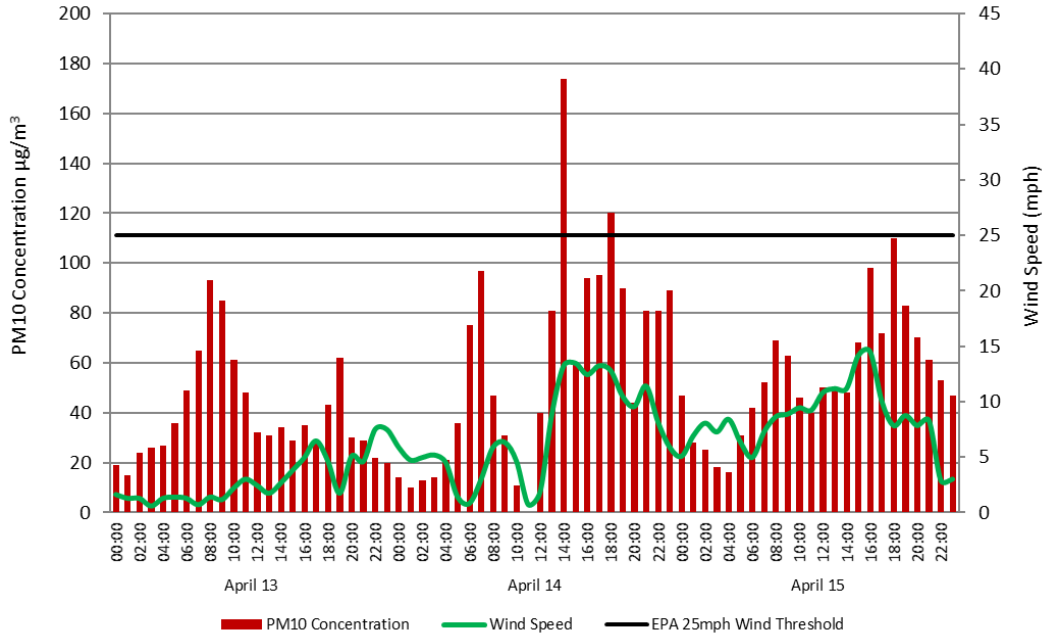

Fig C-2: Winds at Calexico station did not reach the 25mph wind threshold. Air quality and wind data from the EPA's AQS data bank

FIGURE C-3
EL CENTRO PM_{10} CONCENTRATION & WIND SPEED CORRELATION

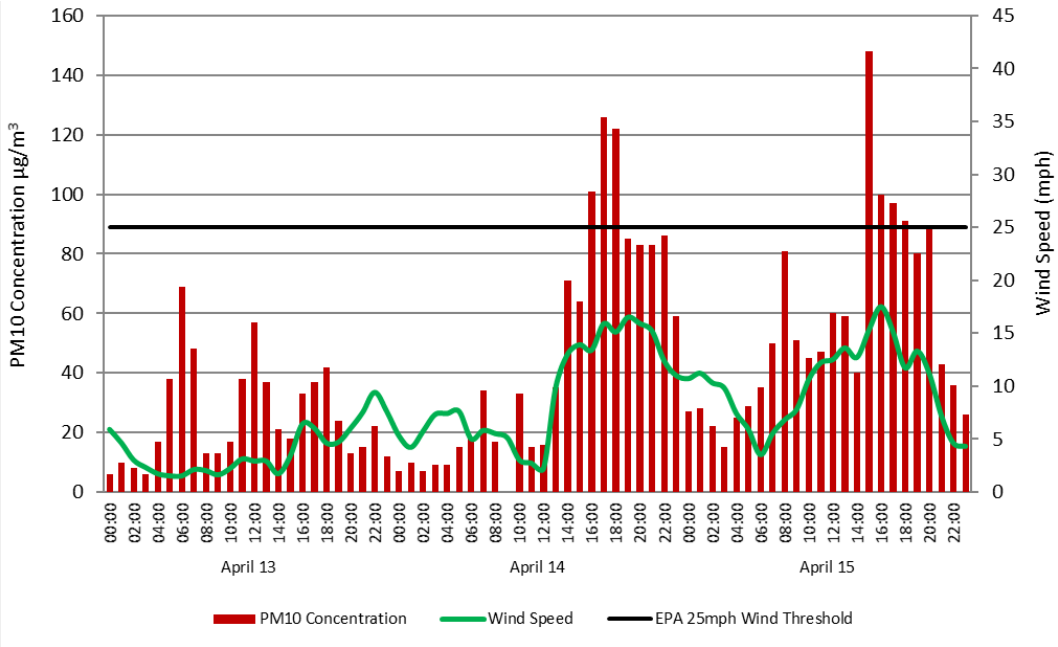

Fig C-3: Winds at El Centro station did not reach the 25mph wind threshold. Air quality and wind data from the EPA's AQS data bank

FIGURE C-4
NILAND PM_{10} CONCENTRATION & WIND SPEED CORRELATION

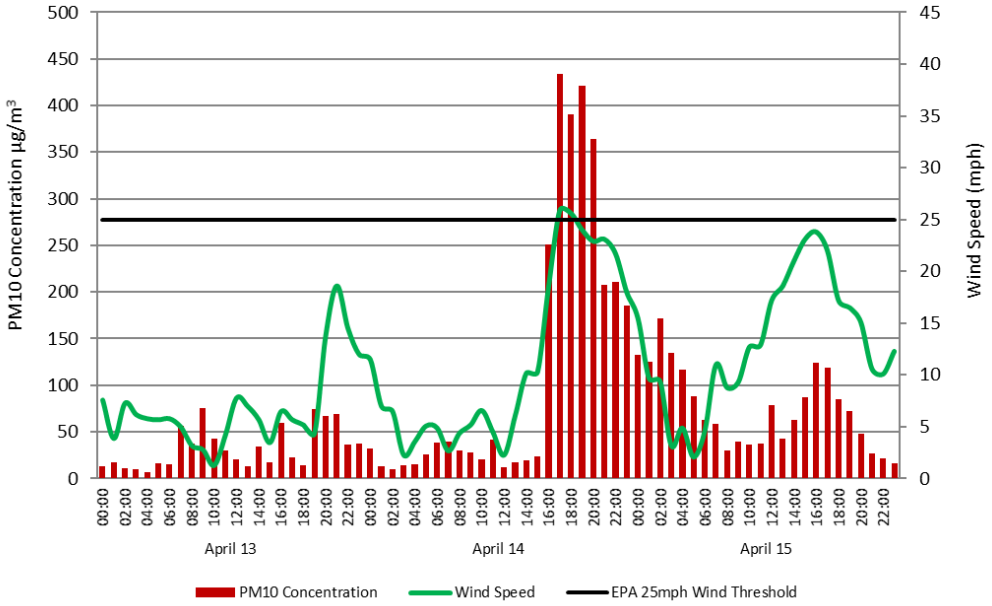

Fig C-4: Winds at Niland station exceeded the 25mph wind threshold which caused the monitor to measure elevated concentrations. Air quality and wind data from the EPA's AQS data bank

FIGURE C-5
WESTMORLAND PM_{10} CONCENTRATION & WIND SPEED CORRELATION

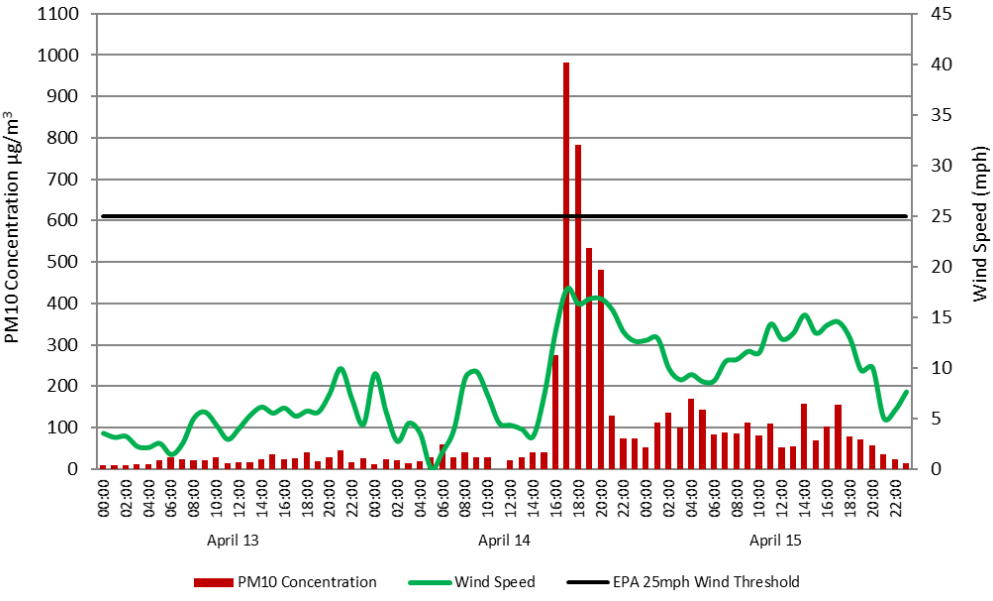

Fig C-5: Winds at Westmorland station did not exceed the 25mph wind threshold. However, dust suspended by higher winds upstream settled out of the air as lower winds passed over the monitor. Air quality and wind data from the EPA's AQS data bank

EASTERN RIVERSIDE COUNTY MONITORING SITES

FIGURE C-6
TORRES MARTINEZ DESERT CAHUILLA TRIBAL PM_{10} CONCENTRATION & WIND SPEED CORRELATION

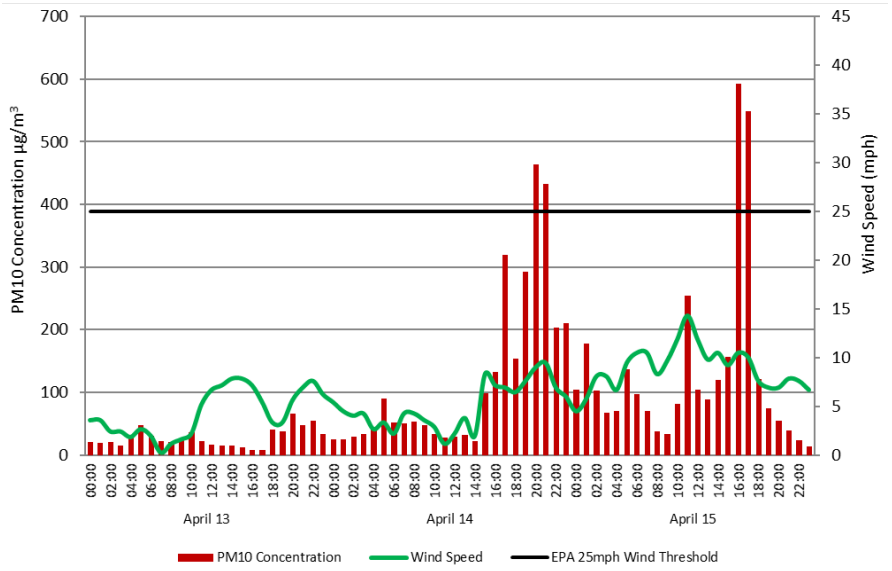

Fig C-6: Winds at the Torres Martinez Desert Cahuilla Indians Reservation station did not exceed the 25mph wind threshold. However, the monitor still measured elevated PM_{10} levels. Air quality and wind data from the EPA's AQS data bank

FIGURE C-7
INDIO (JACKSON ST) PM_{10} CONCENTRATION & WIND SPEED CORRELATION

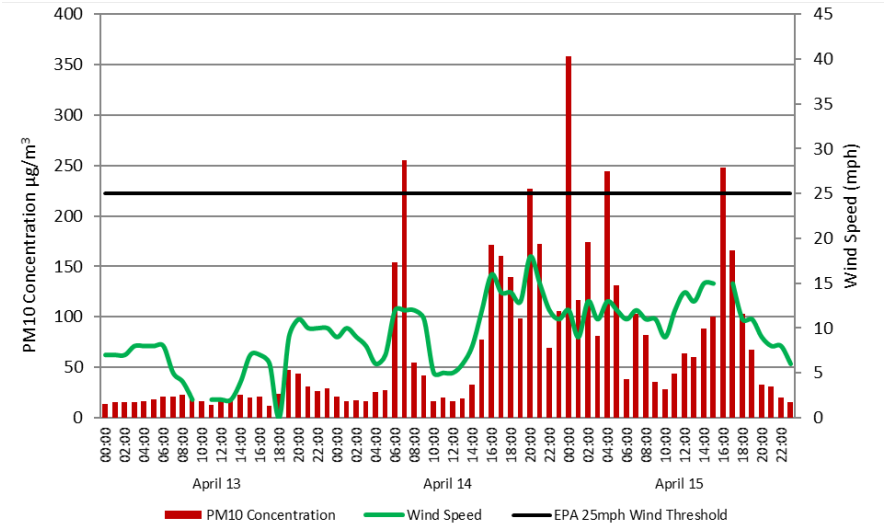

Fig C-7: Winds at the Indio (Jackson St) station did not exceed the 25mph wind threshold. However, the monitor still measured elevated PM_{10} levels. Air quality and wind data from the EPA's AQS data bank

FIGURE C-8
PALM SPRINGS FIRE STATION PM_{10} CONCENTRATION & WIND SPEED CORRELATION

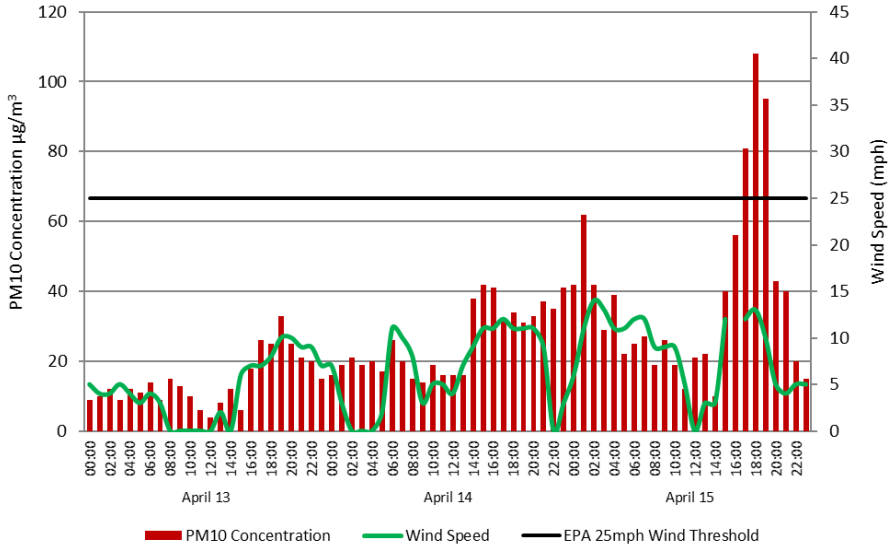

Fig C-8: Winds at the Palm Springs Fire Station did not exceed the 25mph wind threshold. However, the monitor still measured moderately elevated PM_{10} levels. Air quality and wind data from the EPA's AQS data bank

SOUTHWESTERN ARIZONA

FIGURE C-9
YUMA, ARIZONA SUPERSITE PM_{10} CONCENTRATION & WIND SPEED CORRELATION

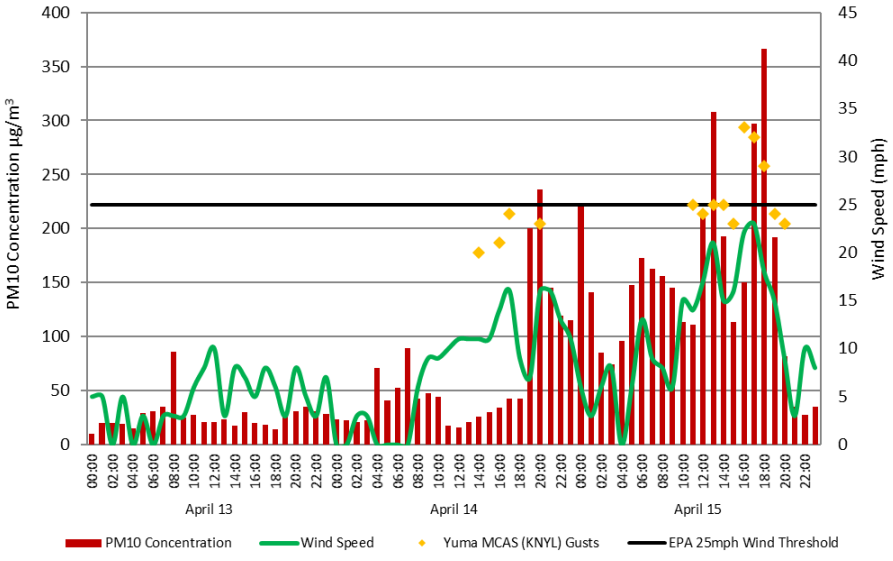

Fig C-9: Yuma Supersite saw a rise in PM_{10} concentrations in response to an increase in winds late in the day. Air quality data from the EPA's AQS data bank. Wind data is from the NCEI's QCLCD system